## **COMBINED DECLARATION** AND POWER OF ATTORNEY

a below named inventor, I hereby declare that:

My citizenship, residence and post office address are as listed below next to my name.

365(c) insofar States acknow betwee applica	r as the subject m or PCT internation wledge the duty to en the filing date of	nal application in the disclose material i	e manner provided by th	e first paragrap 37 CFR § 1.56 CT international g,abandoned)	oh of 35 U.S.C. § 112, I which became available
365(c) insofar States acknown between applications	r as the subject m or PCT internation wledge the duty to en the filing date of ation:	nal application in the disclose material in the prior application of the prior application.	ne manner provided by the information as defined in on and the national or PC	e first paragrap 37 CFR § 1.56 CT international	oh of 35 U.S.C. § 112, I which became available filing date of this
365(c) insofar States acknow between	r as the subject m or PCT internation wledge the duty to en the filing date of	nal application in the disclose material i	ie manner provided by th nformation as defined in	e first paragrap 37 CFR § 1.56	oh of 35 U.S.C. § 112, I which became available
l horet	by claim the benef	national application	35 U.S.C. § 120 nited States Code, § 120 designating the United S	states of Americ is not disclose	a, listed below and,
the cla	ims, as amended ation which is ma	e reviewed and und by any amendmen derial to the patental	edgment of Duty of Disterstood the content of the treferred to above. I act bility of the subject matte Regulations § 1.56(a).	e above identif knowledge the	ied specification, including duty to disclose s application in
(c) [ ]	was described a amended on	and claimed in Inter	national Application No.	f	iled onand
(b) [x]	was filed on Ma		as Application Serial No.	09/536111	_and was amended
(a)[]	is attached here	to.			
-	ecification of whic	h			
the spe					
which a Enhan	ve I am the origina a patent is sought aced Accuracy ar	on the invention er	x) joint inventor of the sul ntitled: <u>Method for Align</u>	ment of DNA	Sequences with

J. Parsons, PTO Reg. No. 40,364 of the firm of OPPEDAHL & LARSON LLP, having office at P.O. Box 5270, 611 Main Street, Frisco, CO 80443 as attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:



021121

PATENT TRACEMEN OFFICE

DIRECT TELEPHONE CALLS TO: OPPEDAHL & LARSON LLP (970) 668-2050

**Claim for Priority** 

I hereby claim foreign priority benefits under 35 U.S.C. § 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign applications for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

EARLIEST FOREI	IGN APPLICATION(S), F	ILED WITHIN TWI	ELVE MONTHS (6	MONTHS FOR DE	ESIGN) PRIOR TO	
COUNTRY APPLICATION NO. DATE OF FILING (day/month/year) DATE OF ISSUE (day/month/year) CLAIMED ATTACHED						
				YES[]NO[]	YES[]NO[]	
EODEIGN APPI ICATV	ONIS IF ANY FILED MORE TI	HAN 12 MONTHS (6 MC	ONTHS FOR DESIGN) P	RIOR TO SAID APPLI	CATION	
FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION  COUNTRY  APPLICATION NO.  DATE OF FILING (day/month/year)  (day/month/year)						

hereby claim the benefit under 35 U.S.C § 119(e) of any United States provisional application(s) liste				
(application number)	(filing date)			

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR	LAST NAME IZMAILOV	FIRST NAME Alexandre	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Etobicoke	STATE OR COUNTRY OF RESIDENCE Ontario, Canada	COUNTRY OF CITIZENSHIP Canada
POST OFFICE ADDRESS 17 Birchview Boulev		CITY Etobicoke	STATE/COUNTRY ZIP CODE Ontario, Canada M8X 1H4
DATE		SIGNATURE	
		SIGNATURE	M8X 1H4

[X] Signature for additional joint inventor	attached.	Number of Pages _	1

[ ] Signature by Administrator(trix) or legal representative for deceased or incapacitated inventor. Number of Pages

[ ] Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR § 1.47. Number of Pages \_\_\_\_

NAME OF SECOND INVENTOR	LAST NAME ZALESKI	FIRST NAME Henryk	MIDOLE NAME
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Mississauga	STATE OR COUNTRY OF RESIDENCE Ontario	COUNTRY OF CITIZENSHIP Canada
POST OFFICE ADDRESS 3256 Chokecherry C		CITY Mississauga	STATE/COUNTRY ZIP CODE Ontario, Canada L5L 1A9
DATE		SIGNATURE	L
NAME OF THIRD INVENTOR	LAST NAME DARASCH	FIRST NAME Stephen	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Toronto	STATE OR COUNTRY OF RESIDENCE Ontario	COUNTRY OF CITIZENSHIP Canada
POST OFFICE ADDRESS 506 Quebec Avenue		CITY Toronto	STATE/COUNTRY ZIP CODE Ontario, Canada M6P 2V7
DATE and 28,	2000	SIGNATURE Stevenshowsh	
NAME OF FOURTH INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE	COUNTRY OF CITIZENSHIP
POST OFFICE ADDRESS	S	CITY	STATE/COUNTRY ZIP CODE
DATE		SIGNATURE	
NAME OF FIFTH INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE	COUNTRY OF CITIZENSHIP
POST OFFICE ADDRESS	3	CITY	STATE/COUNTRY ZIP CODE
DATE		SIGNATURE	

## **COMBINED DECLARATION** AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My citizenship, residence and post office address are as listed below next to my name.

I believe I am the original, first and [] sole/[x] joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: Method for Alignment of DNA Sequences with **Enhanced Accuracy and Read Length** 

Ellian	Ceu Accurac	y and itead Length			
the spe	ecification of w	hich			
(a)[]	is attached h	nereto.			
(b) [x]	was filed on_	March 24, 2000	_ as Application Serial No.	09/536111	and was amended
(c)[]	was describe amended on		ternational Application No.	fi	led onand
the clai	ims, as amendation which is	ded by any amendmomental to the paten	inderstood the content of the ent referred to above. I ack atability of the subject matter al Regulations § 1.56(a).	knowledge the	duty to disclose
365(c) insofar States acknow	of any PCT in as the subject or PCT internated when the filing dates	nternational application of matter of each of the ational application in the to disclose material	35 U.S.C. § 120 United States Code, § 120 on designating the United S he claims of this application the manner provided by th at information as defined in ation and the national or PC	tates of Americ is not disclose e first paragrap 37 CFR § 1.56	ca, listed below and, d in the prior United oh of 35 U.S.C. § 112, I which became available
(Applicat	tion Serial No.)	(Filing Date)	(Status)(patented,pending	g,abandoned)	(Patent No. if applicable)
(Applicat	tion Serial No.)	(Filing Date)	(Status)(patented,pending	g,abandoned)	(Patent No. if applicable)
			Power of Attorney		
J. Pars	ons, PTO Re	g. No. 40,364 of the	eg. NO. 32,746, Marina T. L firm of OPPEDAHL & LARS torneys to prosecute this ap	SON LLP, havir	ng office at P.O. Box 5270,

the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO: OPPEDAHL & LARSON LLP (970) 668-2050

Claim for Priority

I hereby claim foreign priority benefits under 35 U.S.C. § 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign applications for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

EARLIEST FOREIGN APPLICATION(S), FILED WITHIN TWELVE MONTHS (6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION					
COUNTRY	APPLICATION NO.	DATE OF FILING (day/month/year)	DATE OF ISSUE (day/month/year)	PRIORITY CLAIMED	CERTIFIED COPY ATTACHED
				YES[]NO[]	YES[]NO[]
FOREIGN APPLICATION	ON(S), IF ANY, FILED MORE TI	IAN 12 MONTHS (6 M	ONTHS FOR DESIGN) F	RIOR TO SAID APPLI	CATION
COUNTRY	APPLICATION NO.	DATE OF FILING (day/month/year)	DATE OF ISSUE (day/month/year)		

hereby claim the benefit under 35 U.S.C §	119(e) of any United States provisional application(s) listed below.
(application number)	(filing date)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR	LAST NAME IZMAILOV	FIRST NAME Alexandre	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Etobicoke	STATE OR COUNTRY OF RESIDENCE Ontario, Canada	COUNTRY OF CITIZENSHIP Canada
POST OFFICE ADDRESS 17 Birchview Boulevard		CITY Etobicoke	STATE/COUNTRY ZIP CODE Ontario, Canada M8X 1H4
DATE		SIGNATURE	

[X]	Signature f	or additional	ioint inventor attached	. Number of Pages 1	
$I \sim I$	Olymatuse s	or accirionar	ioint inventor attached	. Number of Pages 1	I

Signature by Administrator(trix) or legal representative for deceased or incapacitated inventor. Number of Pages \_\_\_\_.

<sup>[]</sup> Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR § 1.47. Number of Pages \_\_\_\_.

		<b>₩</b>		
NAME OF SECOND INVENTOR	LAST NAME ZALESKI	FIRST NAME Henryk	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Mississauga	STATE OR COUNTRY OF RESIDENCE Ontario	COUNTRY OF CITIZENSHIP Canada	
POST OFFICE ADDRESS 3256 Chokecherry Crescent		CITY Mississauga	STATE/COUNTRY ZIP CODE Ontario, Canada L5L 1A9	
DATE April (	3, 2000	SIGNATURE	Di	
NAME OF THIRD INVENTOR	LAST NAME DARASCH	FIRST NAME Stephen	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Toronto	STATE OR COUNTRY OF RESIDENCE Ontario	COUNTRY OF CITIZENSHIP Canada	
POST OFFICE ADDRESS 506 Quebec Avenue		CITY Toronto	STATE/COUNTRY ZIP CODE Ontario, Canada M6P 2V7	
DATE		SIGNATURE		
NAME OF FOURTH INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRES	s	CITY	STATE/COUNTRY ZIP CODE	
DATE		SIGNATURE		
NAME OF FIFTH INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRESS		CITY STATE/COUNTRY ZIP COD		
DATE		SIGNATURE		

## COMBINED DECLARATION AND POWER OF ATTORNEY

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I believe I am the original, first and [] sole/[x] joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: Method for Alignment of DNA Sequences with Enhanced Accuracy and Read Length

the spe	ecification of whi	ch			
(a)[]	is attached her	eto.			
(b) [x]	was filed on M	arch 24, 2000	_ as Application Serial No.	09/536111	and was amended
(c)[]	was described amended on	and claimed in Into	ernational Application No.	fil	ed onand
informataccord	tion which is ma ince with Title 37 r claim the benef of any PCT interras as the subject m or PCT internation edge the duty to the filing date of	re reviewed and ur by any amendme terial to the patent r, Code of Federal fit under Title 35, L national application atter of each of the nal application in to disclose material	viedgment of Duty of Disc nderstood the content of the ent referred to above. I acknowledge ability of the subject matter Regulations § 1.56(a).  35 U.S.C. § 120  United States Code, § 120 of n designating the United States e claims of this application is the manner provided by the information as defined in 33 ion and the national or PCT	above identifications and in this claimed in this any United States of Americans not disclosed first paragraph	ates application(s) or listed below and, in the prior United of 35 U.S.C. § 112, I
Applicatio	n Serial No.)	(Filing Date)	(Status)(patented,pending,a	bandoned)	(Patent No. if applicable)
Application	n Serial No.)	(Filing Date)	(Status)(patented,pending,a	bandoned)	(Patent No. if applicable)
			Power of Attorney		
hereby a	appoint Carl Opp	pedahl, PTO Reg.	NO. 32,746, Marina T. Lars	on PTO Rea	No. 22.029 and Nove

J. Parsons, PTO Reg. No. 32,746, Marina T. Larson, PTO Reg. No. 32,038, and Nancy J. Parsons, PTO Reg. No. 40,364 of the firm of OPPEDAHL & LARSON LLP, having office at P.O. Box 5270, 611 Main Street, Frisco, CO 80443 as attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

021121

PATENT TRACEMENT OFFICE

DIRECT TELEPHONE CALLS TO: OPPEDAHL & LARSON LLP (970) 668-2050 Claim for Priority

I hereby claim foreign priority benefits under 35 U.S.C. § 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign applications for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

EARLIEST FORE SAID APPLICATION	EIGN APPLICATION(S), F ON	FILED WITHIN TW	ELVE MONTHS (6	MONTHS FOR D	ESIGN) PRIOR TO	
COUNTRY	APPLICATION NO.	DATE OF FILING (day/month/year)	DATE OF ISSUE (day/month/year)	PRIORITY CLAIMED	CERTIFIED COPY ATTACHED	
			<u></u>	YES[]NO[]	YES[]NO[]	
FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO SAID APPLICATION						
COUNTRY	APPLICATION NO.	DATE OF FILING (day/month/year)	DATE OF ISSUE (day/month/year)			

Provisional Application hereby claim the benefit under 35 U.S.C § 119(e) of any United States provisional application(s) listed below.			
(application number)	(filing date)		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE	LAST NAME	FIRST NAME	MIDDLE NAME
OR FIRST INVENTOR	IZMAILOV	Alexandre	
RESIDENCE &	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE Ontario, Canada	COUNTRY OF CITIZENSHIP
CITIZENSHIP	Etobicoke		Canada
POST OFFICE ADDRESS 17 Birchview Boulevard		CITY Etobicoke	STATE/COUNTRY ZIP CODE Ontario, Canada M8X 1H4
DATE 13 April 00		SIGNATURE SOLF IZMAILON	

[X] Signature for additional joint inventor attached. Number of Pages 1 [] Signature by Administrator(trix) or legal representative for deceased or

incapacitated inventor. Number of Pages

[] Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR § 1.47. Number of Pages \_\_\_.

<u> </u>				
NAME OF SECOND INVENTOR	LAST NAME ZALESKI	FIRST NAME Henryk	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Mississauga	STATE OR COUNTRY OF RESIDENCE Ontario	COUNTRY OF CITIZENSHIP Canada	
POST OFFICE ADDRES 3256 Chokecherry	STATE COUNTRY 2		STATE/COUNTRY ZIP CODE Ontario, Canada L5L 1A9	
DATE		SIGNATURE		
NAME OF THIRD INVENTOR	LAST NAME DARASCH	FIRST NAME Stephen	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE Toronto	STATE OR COUNTRY OF RESIDENCE COUNTRY OF CITIZENSHI Canada		
POST OFFICE ADDRES 506 Quebec Avenue		CITY Toronto	STATE/COUNTRY ZIP CODE Ontario, Canada M6P 2V7	
DATE		SIGNATURE		
NAME OF FOURTH INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRES	S	CITY	STATE/COUNTRY ZIP CODE	
DATE		SIGNATURE	SIGNATURE	
NAME OF FIFTH INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
RESIDENCE & CITIZENSHIP	CITY OF RESIDENCE	STATE OR COUNTRY OF RESIDENCE	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRESS	FICE ADDRESS CITY STATE/COUNTRY ZIP C		STATE/COUNTRY ZIP CODE	
DATE		SIGNATURE .		